Application No.: 09/503,524
Amdt. dated: 12/19/2005
Response to Office Action of 11/29/2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claims

Claims 1-11 (Cancelled)

12. (Withdrawn) The method of claim 23 wherein the firing pulse comprises a percussion firing pulse.

Claims 13-14 (Cancelled)

15. (Withdrawn) The method of claim 23 wherein the step of counting down the delay further comprises the steps of:

(a) determining whether pressure conditions meeting a predetermined safety criterion are present in the cartridge before firing the second initiator; and

(b) determining whether forward movement of the projectile satisfy a predetermined safety criterion before firing the second initiator.

Claims 16-22 (Cancelled)

23. (Previously presented) A method for igniting a cartridge to launch a projectile using a first initiator and a second initiator, wherein the cartridge has a temperature sensor and a temperature performance profile, comprising the steps of:

transmitting a firing pulse to fire the first initiator;

providing a signal from the first initiator to a decision event for receiving current temperature data from the temperature sensor, and determining a delay by comparing the current temperature data with the temperature performance profile;

counting down the delay; and

transmitting a firing signal to fire the second initiator when the count down of the delay is complete.

24. (Previously presented) The method of claim 23 where the firing pulse comprises an electronic firing pulse.

25. (Previously presented) The method of claim 23 further comprising the step of operating a movement sensor while counting down the delay to determine whether forward movement of the projectile satisfies a predetermined safety criteria to allow firing the second initiator.

26. (Currently amended) The method of claim 23 wherein firing the first initiator triggers a translation mechanism having two interlocking tubes containing a propellant charge, where the two interlocking tubes include an exterior tube and an interior tube where the exterior tube moves forward and separates from interior tube so that a safety sensor mechanically coupled to the exterior tube then operates to send a movement sensor activation signal to indicate whether it is safe to fire the second initiator .